Curriculum Vitae Prof. Eng. Antonio Formisano

PERSONAL INFORMATION

Prof. Eng. Antonio Formisano

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR

Insertion in the PhD Committee of the Politehnica University of Timisoara

WORK EXPERIENCE

1/11/07– today

University and higher education institutions teacher

University of Naples Federico II, Naples (Italy)

Assistant Professor in the disciplinary scientific sector "Structural Design" (08/B3) from 01/11/07.

Confirmation as Assistant Professor in the same disciplinary scientific sector from 01/11/10.

Aggregate Professor of "Theory and Design of Steel Constructions" at the Faculty of Engineering of the University of Naples Federico II from the academic year 2011/2012

Aggregate Professor of "Laboratory of Structural and Architectural Design" at the Faculty of Architecture of the University of Naples Federico II from the academic year 2011/2012

Aggregate Professor of "Structural Design" at the degree course in Building Engineering of the Polytechnic School and Basic Sciences of the University of Naples Federico II from the academic year 2014/2015

Aggregate Professor of "Structural Design" at the degree course in Architecture - Building Engineering of the Polytechnic School and Basic Sciences of the University of Naples Federico II from the academic year 2016/2017

Licensed to the role of Associate Professor in the competition sector 08/B3 "Structural Design" from April 2017

Associate Professor of Structural Design at the Department of Structures for Engineering and Architecture of the University of Naples Federico II since March 2021.

Licensed to the role of Full Professor in the competition sector 08/B3 "Structural Design" from June 2021

EDUCATION AND TRAINING

23/07/03

MsC in Building Engineering

University of Naples Federico II, Naples (Italy)

MsC Thesis in Theory and Design of Steel Constructions “ Theoretical-experimental analysis of the low-cycle fatigue of cold-formed steel beams” (votation:110/110 cum laude)

17/01/07

PhD in Construction Engineering XIX Cycle

University of Naples Federico II, Naples (Italy)

PhD Thesis:

Seismic upgrading of existing RC buildings by means of metal shear panels: design models and full-scale tests

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English B1	B2	B1	B1	C1

English language course held at the "New Europe" institute placed at Via Pessina in Naples in the period October 2005 – April 2006

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages

Communication skills: Very good communication skills obtained through my experience as Professor and Researcher

Organisational / managerial skills

- Leader of many national and international research projects
- Coordinator of the research group of the Dept. of Structures for Engineering and Architecture on historical centres and masonry aggregates
- First and corresponding author of several papers published into high impact journals

EDUCATIONAL AND PROFESSIONAL EXPERIENCES

2018 – Present: Course of Structural Design within the II level Master ARINT “Architecture and design for internal areas” at the Faculty of Architecture, University of Naples “Federico II”, ITA.

2017 – Present: Reviewer and Jury Committee Member of PhD theses developed in Italian and International Universities.

2016 – Present: Erasmus Committee Member of the Department of Structures for Engineering and Architecture, University of Naples “Federico II”, ITA.

2016 – Present: Course of Structural Design in the Degree Course of Building Engineering and Architecture at the Faculty of Engineering, University of Naples “Federico II”, ITA.

2015-Present: Course of Rehabilitation and Maintenance of Structures (English language) within the II level International Master on “Sustainable Constructions under natural hazard and catastrophic events” (SUSCOS)

2014 –2016: Course of Structural Design within the Degree Course of Building Engineering at the Faculty of Engineering, University of Naples “Federico II”, ITA.

2013-Present: Course of Theory and Design of Steel Constructions (English language) within the II level International Master on “Emerging Technologies for Construction” (ETeC)

2011-Present: Tutor within the PhD course in Management System FCT (Fundacao para a Ciencia e Tecnologia) at the Portugal Universities of Aveiro, Braga, Lisbon, Porto and Minho.

2012 - Present: Co-tutor of MsC theses at the Degree Courses of Architectural Design and Architecture (unique cycle) at the Faculty of Architecture, University of Naples “Federico II”, ITA.

2011-2015: Course of Steel in Refurbishment and Aluminium Structures (English language) within the II level Master on "Design of Steel Structures" at the Faculty of Engineering, University of Naples “Federico II”, ITA.

2011 – 2014: Course of Theory and Design of Steel Constructions (English course) within the MsC course on Structural and Geotechnical Engineering at the Faculty of Engineering, University of Naples “Federico II”, ITA.

2011-2012: Professor of the Laboratory of Structural Design and Design course at the Faulty of Architecture, University of Naples “Federico II”, ITA.

2010 - Present: Tutor of BsC and MsC theses at the Degree Courses of Civil Engineering, Environmental Engineering, Building Engineering, Building Engineering-Architecture and Structural and Geotechnical Engineering of the Faculty of Engineering, University of Naples “Federico II”, ITA.

2010-Present: Tutor of training activities in the field of Structural and Seismic Engineering for students of the degree courses in Building Engineering, Architecture-Building Engineering and Structural and Geotechnical Engineering at the University of Naples “Federico II”, ITA

2009 - Present: Co-tutor of students within the PhD Course in Construction Engineering (now Structural Engineering, Geotechnics and Seismic Risk) of the Engineering Faculty (now School of Polytechnic and Basic Sciences), University of Naples “Federico II”, ITA.

2003 – 2011: Assistant to the Course of Structural Design (Prof. Federico M. Mazzolani) at the MsC on Civil Engineering at the Faculty of Engineering, University of Naples “Federico II”, ITA.

2003-2009: Co-Tutor of MsC theses at the Degree Course of Civil Engineering, University of Naples “Federico II”, ITA.

2011–Present: Consultant of Structural Engineering projects for the design of new reinforced concrete, steel and timber structures and the seismic assessment and retrofitting of historical and monumental masonry constructions.

2000–2010: Independent co-worker at Mazzolani & Partners - Engineering Office in Naples, ITA.

Normative activities

2005-2006: Advisor for the Unification Italian National Entity (UNI) aimed at translating to Italian the European code EN-1993-1-8 for the design of steel joints;

2008-2011: Member of the study committee for the preparation of the new version of the Italian Building Code, section: CNR-DT 208/2011 on the design of aluminium structures (Research National Council – CNR);

2011-2012: Member of the study committee for the review of the Italian Building Code (2008), section: Steel and composite steel-r.c. structures;

2015 - Present: Member of the Italian Technical Committee for the UNI U7309 “Aluminium Structures”;

2015 - Present: Member of the Project Team for the development of a new version of the Eurocode 9 - Aluminium Structures (EC9). Task PT2 “New Types of Connection”

2017-Present: Member of the Project Team for the development of a new version of the Eurocode 9 - Aluminium Structures (EC9). Task PT3 “Long span structures”

Research activities

His scientific activity is testified from more than 350 scientific papers published on national and international journals and national and international conferences, where he has participated as speaker.

The developed activity deals with the following theoretical-numerical studies and experimental researches:

1) Theoretical-numerical activities

1.1) Consolidation of existing structures by means of metal-based techniques;
1.2) Seismic protection of existing RC structures by means of either fibre-reinforced composite materials or base isolation systems;
1.3) Behaviour of metal shear panels for application into seismic resisting structures;
1.4) Seismic analysis of cold-formed thin-walled steel (mild and high strength) members;
1.5) Innovative techniques and processes for producing aluminium-polycarbonate lightweight roof systems;
1.6) Aluminium alloy T-stub joints;
1.7) Joints among steel sheeting with particular reference to the block tearing collapse mechanism;
1.8) Metallic connection systems for timber-steel-concrete composite floors;
1.9) q-factor of I steel sections;
1.10) Analysis methodologies and seismic vulnerability of r.c. and masonry buildings;
1.11) Robustness of steel structures;
1.12) Vulnerability of r.c. buildings in the Vesuvius area;
1.13) Non-linear analysis of masonry building aggregates in seismic areas;
1.14) Volcanic analysis of existing ordinary and monumental buildings;
1.15) Fire resistance of masonry;
1.16) Sustainability and Life Cycle Assessment of building products and structures;
1.17) Non-destructive tests for mechanical characterization of carpentry and rebar steels.

2) Experimental and in-situ activities

2.1) Tests on RC full-scale structures seismically retrofitted by means of base isolation systems;
2.2) Tests on RC members reinforced with fibre-reinforced composite materials;
2.3) Tests on both full-scale RC structures and steel frames seismically retrofitted with metal shear panels;
2.4) Tests on the rotational capacity and fatigue resistance of cold-formed steel beams;
2.5) Testing on the base components (bar and node) of innovative aluminium alloy reticular space structures;
2.6) Experimentation on connections among steel sheeting by means of either bolted or welded or with epoxy resins or mixed joints.

2.7) Experimental tests on 3D steel lattice welded beams under monotonic failure loadings.
2.8) Laboratory tests on bricks and mortars manufactured with agricultural or alimentary wastes under form of hemp, jute and coconut fibres.
2.9) Non-destructive and destructive tests for mechanical characterization of carpentry and rebar steels.
2.10) Laboratory physical and mechanical tests on lime and cement mortar bricks manufactured with waste of fennels.
2.11) In-situ checks of buildings damaged after L'Aquila earthquake (Italy, 2009), Emilia-Romagna earthquake (Italy, 2012), Central Italy earthquake (Italy, 2016) and Ischia earthquake (Italy, 2017).
2.12) Coordinator of the University of Naples' team for the reconstruction plan of Arsita, a small town in the district of Teramo damaged from the L'Aquila earthquake.

Research experiences and grants

Participation to the following National and International research projects:

2001-03: PRIN 2001 - Research project of considerable national interest – Research theme: 'Innovative steel structures for seismic protection of buildings'. Funding scheme: Italian Ministry of Education, University and Research. Coordinator: F. M. Mazzolani

Role: Member

2002: CNR 02.521.ST97 'Development of behavioral models of innovative devices for structural safeguard and related implementation'. Funding scheme: Italian Research National Council. (CNR) Coordinator: F. M. Mazzolani.

Role: Member

2002-04: COST Action –C12 'Improving buildings' structural quality by new technologies'. Funding scheme: EU funding. Coordinator: Jean-Pierre Jaspart. WG2 "Structural Integrity under Exceptional Actions" (leader: F. M. Mazzolani).

Role: Member

2002-05: CNR – MIUR 'Diagnosis and safeguard of architectural hand – made with particular reference to the effects deriving from seismic events and other natural calamities' – Theme n.2: Methods and models for the prediction of the structural behaviour of damaged or not damaged constructions – Line n. 2.5: Modelling of innovative devices for structural safeguard. Funding scheme: Italian Research National Council and Ministry of Education, University and Research. Coordinator: F. M. Mazzolani

Role: Member

2003-05: PRIN 2003 - Research project of considerable national interest – Research theme: 'Innovative metallic structures for seismic protection of new and existing buildings: design criteria and methodologies'. Funding scheme: Italian Ministry of Education, University and Research. Coordinator: F. M. Mazzolani

Role: Member

2004 – 2007: PROHITECH - 'Earthquake protection of historical buildings by reversible mixed technologies'. Funding scheme: FP6 - INCO within the EU 2002-06 Agenda. Coordinator: F. M. Mazzolani

Role: Member

2005-07: PRIN 2005 - Research project of considerable national interest – Research theme: 'Structural protection and rehabilitation of historical buildings by reversible mixed technologies'. Funding scheme: Italian Ministry of Education, University and Research. Coordinator: F. M. Mazzolani

Role: Member

2005-07: PRIN 2005 - Research project of considerable national interest – Research theme: 'Innovative techniques and strategies for seismic retrofitting of existing RC structures'. Funding scheme: Italian Ministry of Education, University and Research. Coordinator: Ciro Faella

Role: Member

2005-08: RELUIS 'Network of University Laboratories of Seismic Engineering' – Line n.5 'Development of innovative approaches for the design of steel and steel – concrete composite structures'. Funding scheme: Italian Civil Protection Department. Coordinator: F. M. Mazzolani

Role: Member

2006-10: COST Action - C26 'Urban Habitat Constructions under Catastrophic Events'. Funding scheme: The EU funding. Chair: F.M. Mazzolani & E. Mistakidis. WG4 "Risk Assessment for Catastrophic Scenarios in Urban Areas" (leaders: M. Faber & M. Indirli).

Role: Member

2010 – 13: RELUIS II 'Network of University Laboratories of Seismic Engineering'. Funding scheme: The Italian Civil Protection Department.

a) Thematic area: "Tools for evaluation and management of the built heritage risk" - Subtask1a "Analysis and check of masonry constructions" Coordinators: S. Lagomarsino, G. Magenes, C. Modena. Coordinator of the research line on "Seismic non-linear analysis of masonry building aggregates in historical centres".

Role: Leader of the research unit – Unina-c Nonlinear analysis for multi-unit masonry buildings

b) Thematic area: "Seismic design of new constructions". Research line: - Task 2 "Steel and composite steel-concrete structures" - Coordinators: R. Landolfo and R. Zandonini.

Role: Member of the research unit - UNINA "Steel bracing systems".

c) Thematic area: "Tools for evaluation and management of the built heritage risk" - Task 1.1.3. "Strategies for reduction of mid-term risk on regional scale" - Coordinator: G. Zuccaro.

Role: Coordinator of the research line on "Simplified evaluation of seismic vulnerability of masonry aggregate buildings".

2011-13: FARO (Funding for beginning of original researches) - Study of the internal dynamic of the volcanic system Somma-Vesuvius through geochemical evolution and keep on time of magma of past eruptions for both forecasting future eruptions and mitigating risk" - Coordinator: A. Lima. Funding scheme: The Italian funding programme on financing for beginning original in research.

Role: Coordinator of the research line on "Vulnerability of Vesuvius building roofs subjected to tephra loadings".

2011-13: POST-EARTHQUAKE INTERVENTION - Reconstruction plan of the municipality of Arsita (Teramo)- Coordinator: ENEA research centre of Bologna. Universities involved: Chieti/Pescara, Naples "Federico II" and Ferrara. Funding scheme: Private convention between the municipality of Arsita and the Universities involved.

Role: Coordinator of the University of Naples research unit.

2014-16: TRAVI BB.CC. "Development and industrialization of innovative systems of welded composition steel beams for light floors and roofs with applications into monumental buildings and archaeological sites" –Partnership: Cooperation between the DiSt Department at the University of Naples Federico II and the Italian metallurgic company Sideredil s.a.s. Funding scheme: P.O.R . Campania FESR 2007-13, Regione Campania Agenda, EU funding.

Role: Leader

2014-2017: PROVACI – Technologies for Seismic Protection and Valorization of Cultural Interest Complexes – Coordinator: Stress S.c. a r.l., Partners: University of Naples "Federico II", University of Padova, T.R.E Consortium, CETMA Consortium, Si.pre S.r.L., C.R.A.C.A. Soc.Coop, Nanofab S.c. a r.l. Funding scheme: P.O.N . 01_02324 - MIUR 2014-20 Agenda, EU co-funding [FESR, FSE and MIUR]. Coordinator: GAETANO MANFREDI

Role: Member of the research line "Cultural Heritage".

2014-17: SNOWBALL - Lower the impact of aggravating factors in crisis situations thanks to adaptive foresight and decision-support tools - Funding scheme: FP7 - Security within the EU Agenda 2014-20. Coordinator: GIULIO ZUCCARO

Role: Member

2014-17: METRICS - Methodologies and technologies for management and requalification of historical centres and cultural heritage buildings. Funding scheme: P.O.N.03PE_00093_5 - MIUR 2014-20 Agenda, EU co-funding. Scientific Responsible: Andrea Prota.

Role: Member

2014-17: METROPOLIS Sustainable and integrated methodologies and technologies for adjusting and safety of urban systems. Funding Scheme: P.O.N.03PE_00093_4 - MIUR 2014-20 Agenda, EU co-funding. Scientific Responsible: Gerardo Mario Verderame.

Role: Member

2014-18: RELUIS III 'Network of University Laboratories of Seismic Engineering'. Funding scheme: The Italian Civil Protection Department.

a) Thematic area: "Masonry Structures" – Task: Design and assessment of vulnerability and safety of artworks and buildings. Coordinators: S. Lagomarsino, G. Magenes, C. Modena. Research line "Numerical modeling of masonry structures made of blocks" - Scientific responsibles: Claudia Casapulla, Francesco Portioli.

Role: Member of the research unit – UNINA

b) Thematic area: "Masonry Structures" - Coordinators: S. Lagomarsino, G. Magenes, C. Modena. Research line "Reparation of buildings damaged by earthquakes and resilience-based intervention

strategies – focus on ecclesiastic buildings" - Scientific responsible: Gabriele Milani, Carlo Poggi.

Role: Member of the research unit - POLIMI

c) Thematic area: "General themes". Research line: "Seismic design of new constructions" - Task 2 "Steel and composite steel-concrete structures" - Coordinators: R. Landolfo and R. Zandonini.

Role: Member of the research unit - UNINA

2019-21: RELUIS 'Network of University Laboratories of Seismic Engineering'. Funding scheme: The Italian Civil Protection Department.

a) Thematic area WP2: "Database of existing structural and building typologies (CARTIS)" - Coordinator: G. Zuccaro. Research lines: Task 2.1 "Survey and data collection into an apposite database" and Task 2.3 "Vulnerability of masonry structures and seismic risk analysis at large scale"- Scientific responsible: Raffaele Landolfo.

Role: Member of the research unit – UNINA c

b) Thematic area WP2: "Database of existing structural and building typologies (CARTIS)" - Coordinator: G. Zuccaro. Research lines: Task 2.1 "Survey and data collection into an apposite database" and Task 2.3 "Vulnerability of masonry structures and seismic risk analysis at large scale"- Scientific responsible: Antonio Formisano.

Role: Coordinator of the research unit – UNINA g

c) Thematic area WP12: "Steel and steel-rc composite structures" - Coordinators: R. Landolfo and R. Zandonini. Research line "Standard contributions related to civil and industrial constructions made of steel and steel-rc composite structures " - Scientific responsible: Raffaele Landolfo.

Role: Member of the research unit - UNINA

d) Thematic area WP5: "Quick execution and integrated interventions with low impact". Coordinators: A. Prota and F. da Porto. Research line: "Quick execution and low impact interventions" - Scientific responsible: Raffaele Landolfo.

Role: Member of the research unit - UNINA

e) Thematic area WP10: "Normative contributions related to existing masonry structures". Coordinators: G. Magenes. Research line: "Modelling of masonry spandrels and automation of out-of-plane mechanisms" - Scientific responsible: Gabriele Milani.

Role: Member of the research unit - POLIMI

2019-21: DIGIBETON "Digital prefabrication of building components in GasBeton: from design to sustainable use in housing modules 4.0". Research line: "Support for development of innovative housing modules manufacturing processes in AAC ". Funding scheme: POR Campania FESR 2014-2020. Scientific responsible: Dr. Eng. Costantino Menna

Role: Member of the research unit - UNINA

2019-20: Joint Research Center (JRC/E/04) – Contract from European Commission as expert to study seismic and energetic retrofitting systems of existing buildings. Funding scheme: European Committee. Leader: Antonio Formisano

Committees

2005- Present: Participation as speaker in numerous national and international conferences and study journeys. By the following a list of the most relevant conferences to the proposed activities:

- 10th International Conference on Civil, Structural and Environmental Engineering Computing, Rome, 30 August – 2 September 2005.
- XX CTA Conference, Ischia, 26-28 September 2005.
- 3rd European Conference on Computational Mechanics Solids, Structures and Coupled Problems in
- Engineering, Lisbon, Portugal, 5–9 June 2006.
- 5th International Conference "Behaviour of Steel Structures in Seismic Areas" (STESSA 2006), Yokohama, 14-17 August 2006
- 15th UK Conference of the Association of Computational Mechanics in Engineering, Glasgow, UK, 2-3 April 2007.
- The 2008 Seismic Engineering International Conference commemorating the 1908 Messina and Reggio Calabria Earthquake" (MERCEA '08), Reggio Calabria, 8-11 July 2008.
- 6th International Conference "Behaviour of Steel Structures in Seismic Areas" (STESSA 2009), Philadelphia, 16–20 August 2009.
- XXII CTA Conference, Padova, 28–30 September 2009.

- XXIII CTA Conference, Lacco Ameno, Ischia, 9-12 October 2011.
- 7th International Conference “Behaviour of Steel structures in Seismic Areas” (STESSA 2012), Santiago, Chile, 9-11 January 2012.
- XXIV CTA Congress, Turin, 30 September – 2 October 2013.
- 7th European Conference on Steel and Composite Structures (Eurosteel 2014), Naples, Italy, 10-12 September 2014.
- 8th International Conference on the “Behaviour of Steel Structures in Seismic Areas” (STESSA 2015). Shanghai, China, 1-3 July 2015.
- XXV CTA Conference, Vietri sul Mare, 1-3 October 2015.
- 13th International Aluminium Conference (INALCO 2016), Naples, 21-23 September, 2016.
- XXVI CTA Conference, Venice, 28-30 September 2017.
- XXVII CTA Conference, Bologna, 3-5 October 2019.

2003- Present: Member of the Editorial Boards and Organizing Committees of several International Conferences. By the following a list of the most relevant conferences to the proposed activities:

- 4th International Conference “Behaviour of Steel Structures in Seismic Areas” (STESSA 2003), Naples, 9-12 June 2003.
- 6th International Conference “Behaviour of Steel Structures in Seismic Areas” (STESSA 2009), Philadelphia, 16–20 August 2009.
- 7th International Conference “Behaviour of Steel structures in Seismic Areas” (STESSA 2012), Santiago, Chile, 9-11 January 2012.
- 14th International Conference on Civil, Structural and Environmental Engineering Computing (CC 2013), Cagliari, Italy, 3-6 September 2013.
- 12th International Conference on Computational Structures Technology (CST 2014), Naples, Italy, 2-5 September 2014.
- 7th European Conference on Steel and Composite Structures (Eurosteel 2014), Naples, Italy, 10-12 September 2014.
- 15th International Conference on Civil, Structural and Environmental Engineering Computing (CC 2015), Prague, Czech Republic, 1-4 September 2015.
- 8th International Conference on the “Behaviour of Steel Structures in Seismic Areas” (STESSA 2015). Shanghai, China, 1-3 July 2015.
- Malta international conference - Europe and the Mediterranean Towards a Sustainable Built Environment (SBE 2016), Malta, Malta, 16-18 March 2016.
- 7th International Conference on Safety and Durability of Structures (ICOSADOS 2016), Vila Real, Portugal, 10-12 May 2016.
- 13th International Aluminium Conference (INALCO 2016), Naples, 21-23 September, 2016.
- 12th International Conference on Structural Repair and Rehabilitation (CINPAR 2016), Porto, Portugal, 26-29 October 2016.
- 27th Italian Conference on Steel Structures (CTA 2019), Bologna, Italy, 3-5 October 2019.
- International Conference on Sustainability and Resilience (SBE 2019), Malta, 21-22 November 2019.
- 4th International Conference on Protection of Historical Constructions (PROHITECH 2020), Athens, 6-8 July 2020.
- 12th International Conference on Structural Analysis of Historical Constructions (SAHC 2020), Barcelona, 16-18 September 2020.

2009- Present: Chairman and Organizer of scientific sessions within many National and International Conferences. By the following a list of the most relevant conferences to the proposed activities:

- 1st International Conference “Protection of Historical Buildings by Reversible Mixed Technologies” (PROHITECH 2009),21-24 June 2009.
- 6th International Conference “Behaviour of Steel Structures in Seismic Areas” (STESSA 2009), Philadelphia, 16–20 August 2009.
- 7th International Conference “Behaviour of Steel structures in Seismic Areas” (STESSA 2012), Santiago, Chile, 9-11 January 2012.

- 11th International Conference on Computational Structures Technology (CST 2012), Dubrovnik,
- Croatia, 4-7 September 2012.
- 14th International Conference on Civil, Structural and Environmental Engineering Computing (CC 2013), Cagliari, Italy, 3-6 September 2013.
- 12th International Conference on Computational Structures Technology (CST 2014), Naples, Italy, 2-5 September 2014.
- 7th European Conference on Steel and Composite Structures (Eurosteel 2014), Naples, Italy, 10-12 September 2014.
- 8th International Conference on the “Behaviour of Steel Structures in Seismic Areas” (STESSA 2015). Shanghai, China, 1-3 July 2015.
- XXV CTA Conference, Vietri sul Mare, 1-3 October 2015.
- 14th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2016), Rhodes, Greece, 19-25 September 2016.
- 13th International Aluminium Conference (INALCO 2016), Naples, 21-23 September, 2016.
- 15th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2017), Thessaloniki, Greece, 25-30 September 2017.
- XXVI CTA Conference, Venice, 28-30 September 2017.
- 12th International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2017), Thessaloniki, Greece, 21-25 April 2017.
- 9th International Conference on the “Behaviour of Steel Structures in Seismic Areas” (STESSA 2018). Christchurch, New Zealand, 14-17 February 2018.
- 14th International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2018), Thessaloniki, Greece, 14-18 March 2018.
- 16th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2018), Rhodes, Greece, 13-18 September 2018.
- 15th International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2019), Rhodes, Greece, 1-5 May 2019.
- 17th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2019), Rhodes, Greece, 23-28 September 2019.
- 27^{th} Italian Conference on Steel Structures (CTA 2019), Bologna, Italy, 3-5 October 2019.

2010- Present: reviewer for the International Journal papers:

- Advances in Engineering Software,
- Advanced in Civil Engineering,
- American Journal of Civil Engineering and Architecture,
- Asian Journal of Civil Engineering,
- Buildings,
- Bulletin of Earthquake Engineering,
- Civil Engineering Journal,
- Cogent Engineering,
- Composite Part B,
- Computers and Structures,
- Earthquake Engineering,
- Energies,
- Engineering Failure Analysis,
- Engineering Structures,
- Frontiers in Built Environment,
- International Journal of Architectural Heritage,
- International Journal of Civil Engineering,
- Journal of Advances in Engineering Software,

- Journal of Architectural Engineering Technology,
- Journal of Civil Structural Health Monitoring,
- Journal of Cleaner Production,
- Journal of Constructional Steel Research,
- Journal of Cultural Heritage,
- Journal Ingeniería Sísmica (Sociedad Mexicana de Ingenieria Sismica),
- Journal of Materials Research and Technology;
- Journal of Structure and Infrastructure Engineering,
- Journal of the Institution of Engineers (India): Series A and Earthquakes and Structures,
- Materials,
- Mechanics of Advanced Materials and Structures,
- NED University Journal of Research,
- Pollack Periodica,
- Shock and Vibration,
- Soil Dynamics and Earthquake Engineering,
- Steel and Composite Structures,
- Structures,
- Sustainability,
- The International Journal of Sustainable Materials and Structures,
- The Open Civil Engineering Journal,
- The Structural Design of Tall and Special Buildings,
- Trends Journal of Sciences Research.

2010- Present: reviewer for the following Conferences:

- Italian Conference on Steel Structures (CTA) (since 2005);
- International Conferences on the “Behaviour of Steel Structures in Seismic Areas” (STESSA) (since 2006):
- Conferences on “Protection of Historical Buildings by Reversible Mixed Technologies” (PROHITECH) (since 2009);
- Conferences on “Computational Structures Technology” (CST) (since 2010);
- Conferences on “Civil, Structural and Environmental Engineering Computing” (ECT) (since 2010);
- 3rd Global Conference on Materials Science and Engineering (CMSE 2013);
- 7th European Conference on Steel and Composite Structures (EUROSTEEL 2014);
- 8th International Conference on the “Behaviour of Steel Structures in Seismic Areas” (STESSA 2015). Shanghai, China, 1-3 July 2015.
- 13th International Aluminium Conference (INALCO 2016), Naples, 21-23 September, 2016.
- 16th World Conference on Earthquake Engineering (16 WCEE) (2017);
- 3rd International Conference on Fuzzy Systems and Data Mining (FSDM 2017);
- 9th International Conference on the “Behaviour of Steel Structures in Seismic Areas” (STESSA 2018). Christchurch, New Zealand, 14-17 February 2018.
- International Conference on Sustainability and Resilience (SBE 2019), Malta, 21-22 November 2019.
- 4^{th} International Conference on Protection of Historical Constructions (PROHITECH 2020), Athens, 6-8 July 2020.
- 12^{th} International Conference on Structural Analysis of Historical Constructions (SAHC 2020), Barcelona, 16-18 September 2020.

2011- Present: A member of the editorial board of the following international journals:

- NED University Journal of Research – An international journal (ISSN 1023-3873); (since 2011).

website: http://www.neduet.edu.pk/NED-Journal/

- American Journal of Geographic Information System (p.ISSN: 2163-1131; e.ISSN: 2163-114X; (since 2012).
  website:http://www.sapub.org/journal/aimsandscope.aspx?journalid=1053
- Trends Journal of Sciences Research (TJSR) (ISSN: 1819-3579); (since 2014).
  website: http://www.tjsr.org/)
- Open Construction and Building Technology Journal (ISSN: 1874-8368); (since 2014).
  website: http://benthamopen.com/tobctj/
- American Journal of Civil Engineering and Architecture (ISSN (Print): 2328-398X; ISSN (Online): 2328-3998, (since 2014).
  website: http://www.sciepub.com/journal/AJCEA
- The International Journal of Sustainable Materials and Structures (IJSMSS) (ISSN online: 2043- 863X; ISSN print: 2043-8621); (since 2014).
  website: http://www.inderscience.com/jhome.php?jcode=ijsmss
- Scienze e Ricerche. (ISSN 2283-5873); (since 2014). website: www.scienzericerche.com
- Journal of Civil Engineering and Architecture research (ISSN 2333-911X); (since 2015).
  website: http://www.ethanpublishing.com/index.php?m=content&c=index&a=lists&catid=101
- Civil Engineering Journal (ISSN: 2476-3055) (since 2016).
  website: http://civilejournal.org/index.php/cej
- Cogent Engineering (Editorial Board member and Editor) (ISSN: 2331-1916) (since 2016).
  Website: http://www.tandfonline.com/loi/oaen20
- The Open Civil Engineering Journal (ISSN: 1874-1495) (since 2017).
  website: https://benthamopen.com/tociej/
- Frontiers in Built Environment (ISSN: 2297-3362) - Computational Methods in Structural Engineering (since 2017) – Review Editor and Guest Associate Editor
  website: https://www.frontiersin.org/journals/built-environment/sections/computational-methods-in-structural-engineering
- Frontiers in Built Environment (ISSN: 2297-3362) - Earthquake Engineering (since 2017) – Associate Editor and Guest Associate Editor
  website: https://www.frontiersin.org/journals/built-environment/sections/earthquake-engineering#
- Hindawi – Advances in Civil Engineering (ISSN: 1687-8094) (since 2017) – Editorial Board member and Editor
  website: https://www.hindawi.com/journals/ace/

2009 – Present: a member of the Italian Association on Seismic Engineering (ANIDIS).

2005 – Present: a member of the Italian Council of Steel Technicians (CTA)

2008 – Present: a member of the Italian Network ReLUIS

2002 - 2010: a member of the European Network Cost Action

2004 - Present: a member of the chamber of Engineers of Naples.

2011 - Present: a member of the Structural Committee of the chamber of Engineers of Naples.

Involvement in PhD activities

- External supervisor for the evaluation of projects presented by researchers of teh University of Parma (Italy) for assignment of FIL funds "Quota Incentivante" for the year 2016 – examination of the project “Movable thin glass greenhouse” prepared by Laura Galuppi (2016)
- Co-tutor of the PhD thesis “Experimental and numerical studies on cyclic behavior of aluminium shear panels” by Hadi Monsef Ahmadi of the University of Urmia (Iran). The student was host in the Department of Structures for Engineering and Architecture of the University of Naples Federico II in the framework of his sabbatical period (from 21/04/2017 to 30/11/2017)
- Advisor of the PhD Thesis “Landsliding risks by induced of earthquakes in Baku city” by Rashad Nuraliyev of the University of Baku in Azerbaijan (2017)

- External evaluator of the PhD thesis "Design with controlled mechanism of reinforced concrete frames "by Roberta Muscati, Tutor: Rosario Montuori, University of Salerno (February 2017-March 2017)
- Member of the Final Examination Committee of the Doctoral Course in Risk, Environmental, Territorial and Building Development (XXX cycle) active at the Polytechnic of Bari (25/01/2018)
- External reviewer of the PhD Thesis "Advanced structural problematics in steel bridges" by Tetougeni Cyrille Denis, student of the PhD School in Civil and Environmental Engineering Sciences, of the University of Padua (13/09/2019 - 03/11/2019)
- Co-tutor together with Prof. Kamel Djeghaba of the PhD Thesis "Study of the seismic vulnerability and the reinforcement of masonry structures using mechanical methods" by Hatem Seboui of the University of Badji - Mokhtar in Annaba (Algeria) (10/11/2019 -in progress)
- External reviewer of the PhD thesis "Robustness of industrial precast buildings due to damage accumulation" by Marina Poiani, PhD student at Polytechnic University of Marche (2019_19)
- Reviewer according to Ministerial Decree 45/2013 of the PhD thesis "The architectural heritage of the Maghreb cultures at risk of disappearance due to loss of knowledge and environmental aggression. Vulnerability and seismic risk assessment of the medina of Fes in Morocco " by Sara Stefanini, PhD student of the DOCTORAL RESEARCH IN ARCHITECTURE - Curriculum in Structures and Restoration of Architecture and Cultural Heritage - at the University of Florence (07/11 / 2019 - 06/12/2019)
- Reviewer according to Ministerial Decree 45/2013 of the PhD thesis "Masonry arch bridges in Venice: experimental and numerical procedures for structural identification" by Anna Manzato, PhD student of the Doctoral School of the IUAV University of Venice in "Architecture, City and Design" - Curriculum "Innovation for building and cultural heritage" - CYCLE XXXII (06/12/2019 - 28/02/2020)
- Reviewer according to Ministerial Decree 45/2013 of the PhD thesis "An Innovative SHM Solution for Earthquake-Induced Damage Identification in Historic Masonry Structures" by Alban Kita, student of the International PhD Program in Civil and Environmental Engineering of the University of Florence - CYCLE XXXII (10/01/2119 - 15/12/2019)
- Reviewer according to Ministerial Decree 45/2013 of the PhD thesis "BIM multilevel analysis for the assessment of seismic vulnerability of masonry buildings" by Marco Saccucci, student of the Doctoral School in "Methods, models and technologies for engineering" of the University of Cassino and Southern Lazio - CYCLE XXXII (10 11/11/2019 - 12/15/2019)
- Reviewer according to Ministerial Decree 45/2013 of the PhD thesis "Experimental and numerical investigation of fiber reinforced elastomeric isolators made from recycled rubber" by Ahmad Basshofi Habieb, PhD student in "ARCHITECTURE BUILT ENVIRONMENT AND CONSTRUCTION ENGINEERING" of the Politecnico di Milano - CYCLE XXXII (29/11/2019 - 13/12/2019)
- Co-tutor of the PhD thesis "Seismic vulnerability and loss assessment of structures through wavelet-based damage index" by Omid Yazdanpanah of the Engineering Faculty of the Imam Khomeini International University, Qazvin (Iran), hosted in the Department of Engineering Structures and the Architecture of the University of Naples Federico II during his sabbatical period (from 22/10/2019 to 09/06/2020)
- Advisor of the Master Thesis “Seismic reinforcement of masonry structures by hemp-based systems” delivered by Coline Cantinieaux of the Mons University (Belgium) (February 2020-in progress)
- Member of the Teaching Board of the PhD in "Civil and Environmental Engineering of the University of Perugia (22/04/20 - ongoing)
- Member of the Evaluation Board of Master and PhD Program in Engineering Science (Structures) of the University of Sinaloa in Mexico (May 28 - ongoing)
- Reviewer of post-doctoral scientific research projects on behalf of Science, Research and Innovation Policy Support Department of the University of Riga in Lithuania (02/02/2020 - ongoing)
- Co-tutor of PhD thesis "Progressive collapse mechanisms of structures" of Haokun Liu from University of Tianjin (China), who will be hosted in the Department of Engineering and Architecture of the University of Naples Federico II during his sabbatical period (from 31/08/2020 to 31/08/2021

Research activities on seismic vulnerability assessment and seismic protection of existing buildings

- Involved in the study of masonry building aggregates into historical centres. Coordinator of the research line on “Seismic non-linear analysis of masonry building aggregates in historical centres” of the Italian RELUIS II 'Network of University Laboratories of Seismic Engineering' project (2010-2013)
- Participation to the Italian “METRICS” “Methodologies and technologies for management and requalification of historical centres and cultural heritage buildings” and “METROPOLIS” “Sustainable and integrated methodologies and technologies for adjusting and safety of urban systems” projects (financed by the Italian Ministry on Instruction, University and Research (MIUR))
- Post-seismic survey of monumental and ordinary buildings after the Italian Abruzzo (2009) and Emilia-Romagna (2012) earthquakes
- Large scale seismic vulnerability analysis of the following historical centres damaged or not by past earthquakes:
    - Poggio Picenze (L’ Aquila, 2009 earthquake)
    - San Pio delle Camere (L’ Aquila, 2009 earthquake) in cooperation with the University of Pisa
    - Castelvecchio Subequo (L’ Aquila, 2009 earthquake)
    - Arsita (Teramo, 2009 earthquake) in cooperation with ENEA, University of Ferrara and University of Chieti Pescara
    - Postignano (Perugia, 1997 earthquake)
    - Torre del Greco (Napoli, forecast analysis)
    - Bacoli (Napoli, forecast analysis)
    - San Potito Sannitico (Caserta, forecast analysis)
    - Sessa Aurunca (Caserta, forecast analysis)
    - Campi Flegrei (Napoli, forecast analysis)
- Coordinator of the team coming from University of Naples Federico II for the reconstruction plan of the Arsita town (Teramo, Italy) damaged by the 2009 Abruzzo earthquake
- Evaluation of the seismic behaviour of monumental palaces (Palazzo di Città, Torre del Greco, Napoli; Ferrari, Poggio Picenze, L’Aquila; Sidoni, Castelnuovo di San Pio, L’Aquila; Camponeschi, L’Aquila; Santa Liberata villa, Cento, Ferrara; Pignatelli, Napoli; Vesuvius villas (Ercolano, Portici, San Giorgio a Cremano, Torre del Greco) and churches (Visitazione and San Giuliano, Poggio Picenze, l’Aquila).
- Survey, seismic behaviour evaluation and retrofitting of several r.c. (Beato V. Romano and D’Assisi) and masonry schools (Mazza, Orsi, Campanariello, Chiazzolelle and Sauro) in Torre del Greco and Emilia-Romagna districts
- Dynamic identification tests on masonry buildings (Ferrari Palace in Poggio Picenze and Sidoni Palace in San Pio delle Camere) and churches (San Giuliano and Visitazione) after the 2012 Emilia-Romagna earthquake
- Seismic retrofitting techniques based on metal shear panels, steel bracings, base isolation and composite materials
- Author of more than 100 papers on the topics of seismic vulnerability and retrofitting of existing masonry and r.c. constructions

Awards and Honours

2007: Best paper in the category: Post-doc of the 15th ACME Conference - Association of Computational Mechanics in Engineering. Glasgow, UK.

2012: Award plaque in recognition of Exceptional Leadership and Devoted Service to the municipality of Cento (Ferrara, Italy) during the post-earthquake recovering after the Emilia Earthquake (2012).

2014: 3rd prize within an International Competition for the project of a tourist City in Abha - Saudi Arabia (structural engineer consultant). The project details are available in the monograph: Raffone S. “Tourist City in Abha, Saudi Arabia”, 2014, Giannini editor, ISBN: 9788874317554.

2015: "Web Prize" and third placement in the general classification in the context of Architecture prizes _VI edition "Urban Conviviality" with Project N. 6 "The dancing Equines " finalized to the requalification of the Agnano (district of Naples) racecourse – role of structural consultant.

2016: Oscar Green prize with a special mention attributed for the experimentation (in collaboration with Eng. Luigi De Marco) on green buildings with the reuse of agricultural hemp wastes.

2017: “Innovation Prize” related to “Digital strategies for the optimization of products and business processes” within the SMAU 2017 event (Naples, December 14th)

2017: Visiting Professor at the TU Munich, Chair of Conservation-Restoration and Honorary Fellow of the TUM Institute for Advanced Studies within the excellence initiative programme August-Wilhelm

Scheer Visiting Professorship.

2018: 5th placement in the international design competition for the realization of the school pole of Excellence Hotel and Agribusiness of the municipality of Ariano Irpino - role of structural consultant for the Solaro architectural firm in Herculaneum (NA)

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https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107771409&doi=10.1016%2fj.measurement.2021.109558&partnerID=40&md5=b349d6872e511fe6c26d74158666f5dc

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Fe vs. De modeling for the nonlinear dynamics of a historic church in central italy
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https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105781063&doi=10.3390%2fgeosciences11050189&partnerID=40&md5=6fe8b179587c7041260200c3ef7be2d7

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Monsef Ahmadi, H., Sheidaii, M.R., Tariverdilo, S., Formisano, A., De Matteis, G.
Seismic Behavior of Thin Cold-Formed Steel Plate Shear Walls with Different Perforation Patterns
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https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106607520&doi=10.12989%2feas.2021.20.4.377&partnerID=40&md5=3678431029cbf38c253766773fd73519

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Biglari, M., Formisano, A., Hashemi, B.H.
Empirical fragility curves of engineered steel and RC residential buildings after Mw 7.3 2017 Sarpol-e-zahab earthquake
(2021) Bulletin of Earthquake Engineering, 19 (6), pp. 2671-2689.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85103649022&doi=10.1007%2fs10518-021-01090-4&partnerID=40&md5=cddcd330bf3a9744bcd03ec034ab1a42

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Discontinuous approaches for nonlinear dynamic analyses of an ancient masonry tower
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https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102860109&doi=10.1016%2fj.engstruct.2020.111626&partnerID=40&md5=61f755675b2f8dcfcba0fe21d2e4bd3b

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Clementi, F., Formisano, A., Milani, G., Ubertini, F.
Structural Health Monitoring of Architectural Heritage: From the past to the Future Advances
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Fem Model Calibration of Experimental Environmental Vibration Tests on Two Churches Hit by L'Aquila Earthquake
(2021) International Journal of Architectural Heritage, 15 (1), pp. 113-131.
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Baca, V., Bojórquez, J., Bojórquez, E., Leyva, H., Reyes-Salazar, A., Ruiz, S.E., Formisano, A., Palemón, L., Chávez, R., Barraza, M.
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https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086139499&doi=10.1016%2fj.soildyn.2020.106222&partnerID=40&md5=d4a2257b5a633e4f4b8ac632e8118d03

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Chieffo, N., Formisano, A.
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Informatic skills

- Outstanding use of the Office package programs
- Good knowledge of photo retouching programs
- Excellent knowledge of structural computing softwares, such as SAP2000, 3muri, Pro_Sap, Abaqus, Edilus, Nolian and 3dMacro

Naples, 27/07/21

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